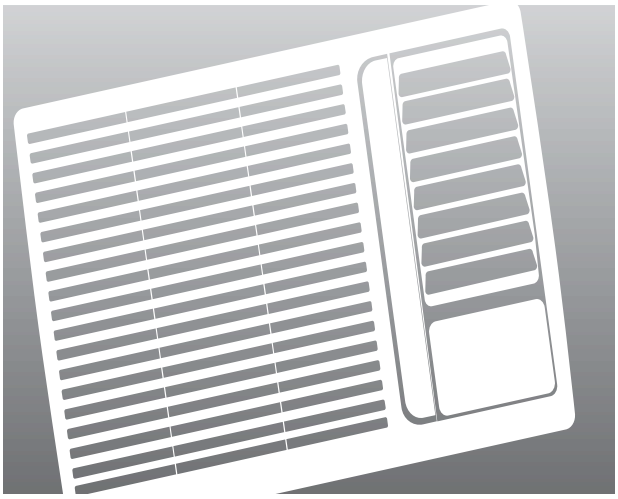
SAMSUNG

OWNER'S INSTRUCTIONS

AW12ZKB Series
AW18ZKC Series
AW18WKC Series

Window-type Room Air Conditioner
(Cool)



DB98-30396A

Safety Precautions

The following safety precautions must be taken when installing and using your air conditioner.

1 *The air conditioner must be plugged into its own specific power source, which must be installed in compliance with national wiring, earthing and safety regulations.*

Depending on national regulations and your specific installation, you may need to install:

- *A circuit breaker*

For further information on electrical requirements, contact a professional electrician.

This device must be installed according to the national electrical rules.

2 *Make sure that the unit is correctly ventilated at all times; do NOT place clothing or other materials over it.*

3 *NEVER spill liquids of any kind into the unit. Should this happen, unplug the unit and contact your installation specialist.*

4 *Do NOT insert anything between the air outlet blades, as it may damage the inner fan and you may be hurt. Keep children away from the unit.*

5 *ALWAYS ensure that the power cable is in good condition.*

If the power cord is damaged in any way, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.

6 *Do NOT attempt to repair the unit yourself. If it is damaged in any way, contact:*

- *An authorized service center*
- *The dealer from whom you purchased the air conditioner.*

7 *Do NOT place any blocking objects in front of the unit.*

8 *If the remote control will not be used for a long time, remove the batteries.*

9 *Before throwing out the device, it is necessary to pull back the battery cells and get rid of them safely.*

CAUTION

The manufacturer does not assume responsibility for accidents or injury caused by an incorrectly installed air conditioner. If you are unsure about installation, contact an installation specialist.

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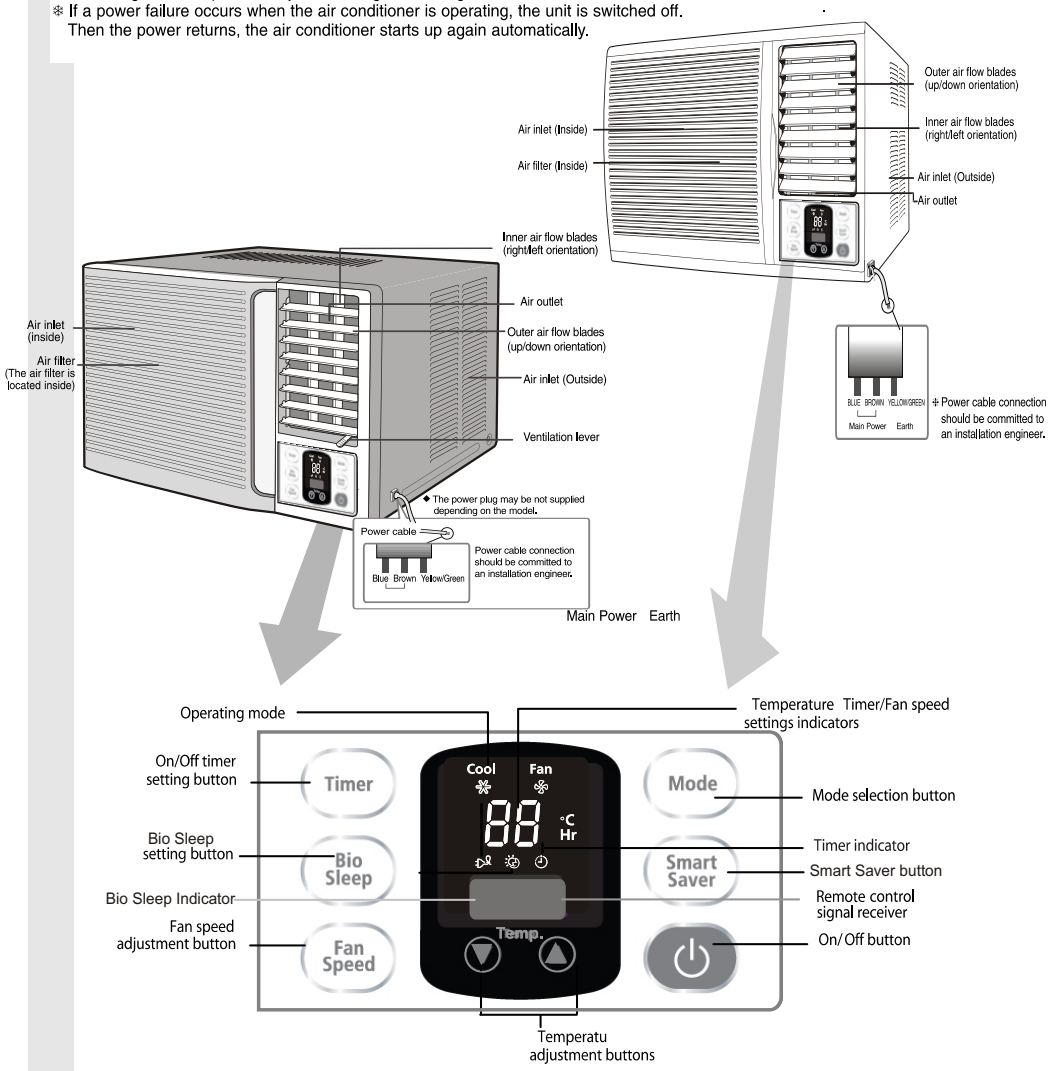
CAUTION

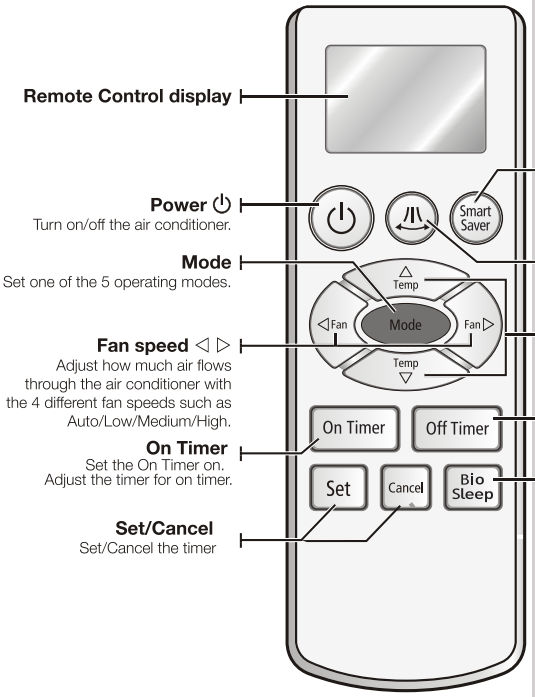
" The high inrush current of the starting compressor motor can have adverse effects to the operation of other equipment under unfavorable mains conditions. This equipment does not comply with the relevant technical standards for the limitation of voltage fluctuations and flicker."
Before connecting this equipment to the power supply system, please report to your supply authority and obtain the consent.
Do not connect other electric appliances to the same supply lines.

Air Conditioning Unit - Main Parts, Buttons and Display

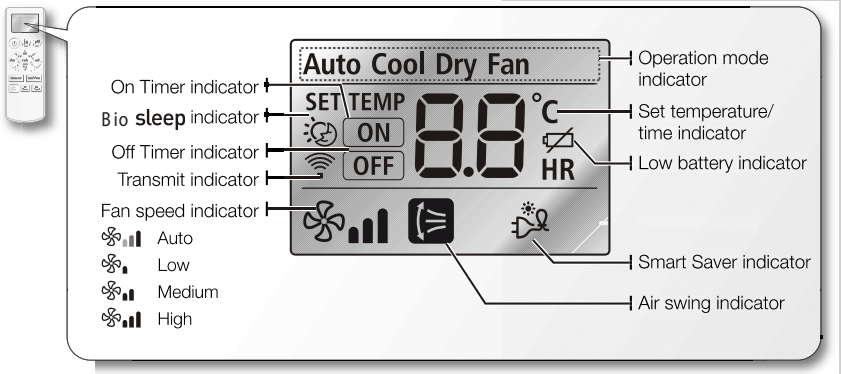
❄ The design and shape are subject to change according to the model.
❄ If a power failure occurs when the air conditioner is operating, the unit is switched off. Then the power returns, the air conditioner starts up again automatically.


Outer air flow blades (up/down orientation)
Inner air flow blades (right/left orientation)
Air inlet (Outside)
Air outlet
Air inlet (Inside)
Air filter (Inside)
Inner air flow blades (right/left orientation)
Air outlet
Outer air flow blades (up/down orientation)
Air inlet (Outside)
Ventilation lever
Air inlet (inside)
Air filter (The air filter is located inside)
BLUE BROWN YELLOW/GREEN
Main Power Earth
❈ Power cable connection should be committed to an installation engineer.
◆ The power plug may be not supplied depending on the model.
Power cable
Blue Brown Yellow/Green
Power cable connection should be committed to an installation engineer.
Main Power Earth

Remote Control - Buttons and Display



Remote control display



Getting Started

You have just purchased a window-type room air conditioner and it has been installed by your installation specialist.

Your Owner's Instructions contain valuable information on using your air conditioner.
Please take the time to read them as they will help you take full advantage of the unit's functions.

This Owner's Instructions is just for using your air conditioner correctly.
Thus, the illustrations shown in this manual may not exactly match your air conditioners.

The booklet is organized as follows.

- ***The following figures are shown on pages 4 and 5:***
  - ***Air conditioning unit (main parts, buttons and display)***
  - ***Remote control (buttons)***

  They will help you find the buttons and understand the symbols displayed.

- ***In the main part of the document, you will find a series of step-by-step procedures for each function available.***

The illustrations in the step-by-step procedures use four different symbols:

PRESS	**PUSH**	**IMPORTANT**	**NOTE**

Moreover, applicable, wherever the illustrations show the positions of the buttons on both the remote control and the unit itself.

For the...	The illustrations have a...
Remote control	Gray background. Example:
Unit itself	White background. Example:

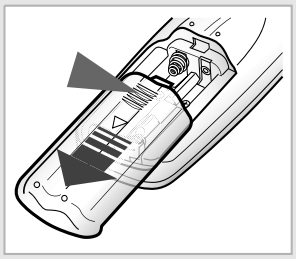
Inserting the Remote Control Batteries

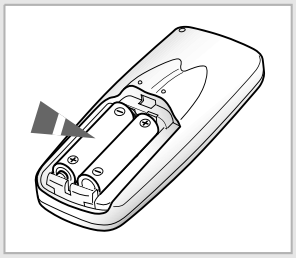
You must insert or replace the remote control batteries when:

- ***You purchase the air conditioner***
- ***The remote control does not work correctly***

Use two AAA, LR03 1.5 V batteries. Do not use old batteries or different kinds of batteries together.

Batteries may be completely discharged after 12 months, even if they have not actually been used.





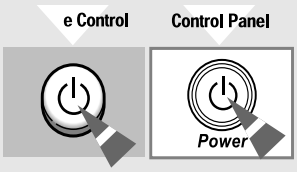
1 Push the battery cover on the rear of the remote control with your thumb in the direction of the arrow and remove it.

2 Insert the two batteries, taking care to respect the polarities:
- + on the battery with + on the remote control
- – on the battery with – on the remote control

3 Close the cover by sliding it back until it clicks into place.

Result: You can control all the functions on your air conditioning unit directly from your seat, using the remote control.

Cooling Your Room



You must select the Cool mode if you wish to lower the temperature in your room. You can also set the fan speed.

1 If necessary, press the ⏻ (On/Off) button.

Result:
- The operating mode indicator (COOL or FAN) on the unit comes on.
- The air conditioner starts up in the mode selected when the unit was last used.
- The unit beeps twice.

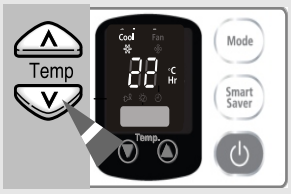
☛ The air conditioner is fitted with a protection mechanism to prevent the unit from being damaged when it is started immediately after being:
- Plugged in
- Stopped

It will start up automatically after about three minutes.

2 If the COOL indicator is not lit up on the unit:
- Press the Cool button on the remote control
  or
- Press the MODE button on the unit one or more times until the COOL indicator lights up

Result:
- The unit beeps each time you press MODE.
- The air conditioner starts up in Cool mode.

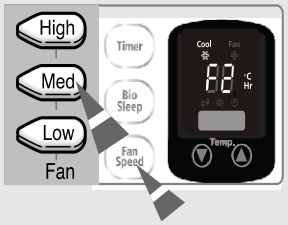
➢ You can change modes at any time.



3 To adjust the temperature, press the ∧ or ∨ button on the remote control one or more times until the required temperature is displayed.
To adjust the temperature, press the Δ or ∇ button on the unit one or more times until the required temperature is displayed.

Possible temperatures are between 18°C and 30°C inclusive.

Result:
- Each time you press the temperature buttons:
  - The temperature is adjusted by 1°C and displayed on the control panel
  - The unit beeps
- The air conditioner starts cooling if the room temperature is higher than the selected temperature.



4

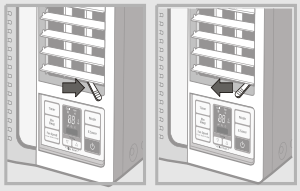
To set the fan speed to...	Then...
High	◆ Press the High button on the remote control. or ◆ Press the Fan Speed on the unit until the ✣ indicator lights up
Med	◆ Press the Med button on the remote control. or ◆ Press the Fan Speed on the unit until the ✣ indicator lights up
Low	◆ Press the Low button on the remote control. or ◆ Press the Fan Speed on the unit until the ✣ indicator lights up

Result: Each time you press a button, the unit beeps.

5 To control the direction of the air flow, refer to page 10.

Airing Your Room

If the atmosphere in your room is stale, you can air it using the Fan feature and if necessary, evacuate the stale air outside.

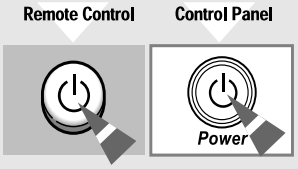


1 If you wish to evacuate stale air outside, push the ventilation lever on the front of the unit to the right and the open position ( ).

Result: The air inside the room circulates and stale air is evacuated outside.

Otherwise, push the ventilation lever to the left and the closed position ( ).

Result: The air simply circulates inside the room.



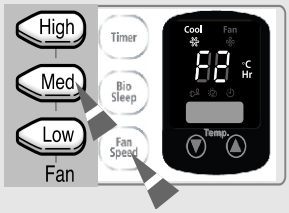
2 If necessary, press the ⏻ (On/Off) button.

Result:
- The operating mode indicator (COOL or FAN) on the unit comes on.
- The air conditioner starts up in the mode selected when the unit was last used.
- The unit beeps twice.

3 If the FAN indicator is not lit up on the unit:
- Press the Fan button on the remote control
  or
- Press the MODE button on the unit one or more times until the FAN indicator lights up

Result:
- The unit beeps each time you press MODE.
- The air conditioner starts up in Fan mode.

➢
- You can change modes at any time.
- When the air conditioner is in Fan mode, the temperature is not displayed; in this case, you do not need to set the temperature.



4

To set the fan speed to...	Then...
High	◆ Press the High button on the remote control. or ◆ Press the Fan Speed on the unit until the ❁ indicator lights up
Med	◆ Press the Med button on the remote control. or ◆ Press the Fan Speed on the unit until the ❁ indicator lights up
Low	◆ Press the Low button on the remote control. or ◆ Press the Fan Speed on the unit until the ❁ indicator lights up

Result: Each time you press a button, the unit beeps.

5 To control the direction of the air flow, refer to page 10.

Adjusting the Air Flow Direction Horizontally

Depending on the position of the unit in your room, you can adjust the orientation of the inner air flow blades on the right-hand side of the unit, thus increasing the efficiency of the air conditioner.

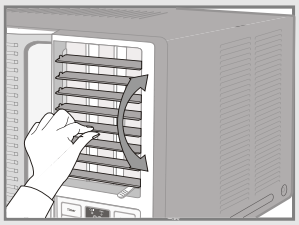
1 Press the button on the remote control.

Result: The inner blades swing automatically left and right.

2 To stop the blades moving left and right, press the button on the remote control.

➢ To stop the blades in a specific position and orient the air flow in the corresponding direction, simply press the button on the remote control when the blades are in the desired position.

Adjusting the Air Flow Direction Vertically



Again depending on the position of the unit in your room, you can adjust the orientation of the outer air flow blades on the right-hand side of the unit.

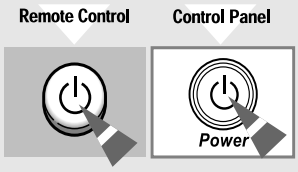
RECOMMENDATION	**When...**	**Adjust the blades to face...**
	Cooling	Upwards.

Adjust the air flow blades to the desired position, by pushing them upwards or downwards.

➢ If you orient the air flow blades downwards and the unit operates in Cool mode for a long period of time, dew may:
- Form on the surface of the blades
- Drip from the blades

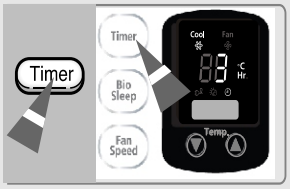
Setting the On timer

The On Timer enables you to switch on the air conditioner automatically after a given period time. You can set the period of time from 1 hour to 24 hours. You can select the On timer only when the air conditioner is off.



1 Check that the air conditioner has been switched off; if necessary, press the ⏻ (On/Off) button.

2 Set the required mode by pressing the appropriate button:
- Cool or Fan on the remote control
- Mode button on the unit (press it one or more times until the appropriate operating mode indicator lights up)



3 Set the operating time by pressing:
- Timer on the remote control.

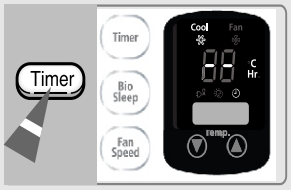
  or
- Timer on the unit one or more times.

Possible time is between 1 hour and 24 hour inclusive.

Result:
- The remaining time is displayed and decreased by 1 hour automatically to indicate the remaining time.
- The air conditioner switches on automatically when the operating time reaches zero.

➢ You can change the setting mode, fan speed, and air flow direction after setting the On timer.

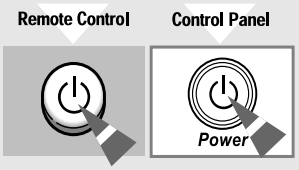
To Cancel the On Timer



To cancel the timer, press:
- Timer on the remote control or unit one or more times until "--" is displayed.

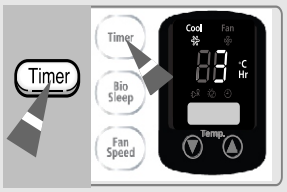
  or
- ⏻ on the remote control or unit (The air conditioner operates in the mode selected when the unit was last used.)

Setting the Off Timer



The Off Timer enables you to switch off the air conditioner automatically after a given period of time. You can set the period of time from 1 hour to 24 hours.
You can select the Off timer only when the air conditioner is on.

1 Check that the air conditioner has been switched on; if necessary, press the ⏻ (On/Off) button.



2 Set the operating time by pressing:
- Timer on the remote control

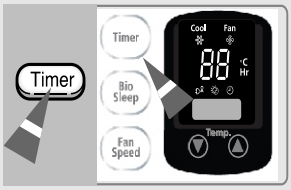
  or
- Timer on the unit one or more times.

Possible times are between 1 hour and 24 hour inclusive.

Result:
- The remaining time is displayed and decreased by 1 hour automatically to indicate the remaining time.
- The air conditioner switches off automatically when the operating time reaches zero.

➢ You can change the setting mode, fan speed, and air flow direction after setting the Off timer.

To Cancel the Off Timer



To cancel the timer, press:
- Timer on the remote control or unit one or more times until "--" is displayed.

  or
- ⏻ on the remote control or unit (The air conditioner operates in the mode selected when the unit was last used.)

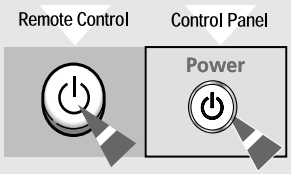
Selecting Bio Sleep **Mode**

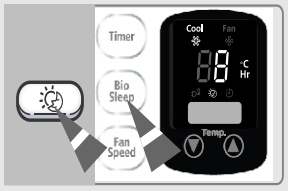
Bio Sleep mode helps users to fall asleep well after going to bed whether being too hot to sleep or being awakened by coldness. The Bio Sleep Mode can be selected only when the air conditioner is switched on or off in cool mode.

➢ ***The Bio Sleep function can be set whether the air conditioner is switched on or off,and this function can be selected for any mode.***

Press the button on the remote control
or
Press the Bio Sleep button on the unit .

Result:
- Each time you press a butoon, the unit beeps.
- The indicator and "8" will be displayed.
- The remaining time is displayed and decreased by 1 hour automatically to indicate the remaining time.
- If Bio Sleepis selected after switching on the unit ,the air conditioner will run in Cool mode.During this period, the temperature displayed is one you set for the Cool mode. If the Bio Sleep is selected before switch on the unit, the air conditioner starts running in Cool mode and the temperature is set to 26 °C.
- The fan is running in low mode,and you can adjust the speed.





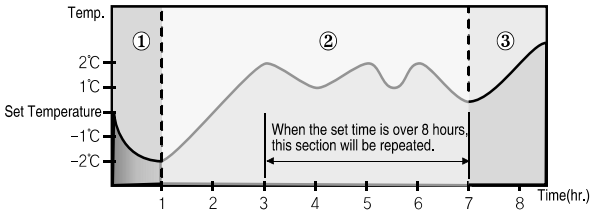
In cool mode

Bio Sleep Mode keeps the skin temperature at the best during the 3 stages such as, Falling Asleep stage ➟ Sound Sleep Stage ➟ Wake Up Stage in order.

① **Falling Asleep Stage :**
This stage supports enviroment to quickly cool down. Together with comfortable intermittent air, you will be able to fall asleep quickly.

② **Sound Sleep Stage :**
This stage helps users to take deep sleep and keep the healthy skin by controlling wavy temperature control and insensible air stream.

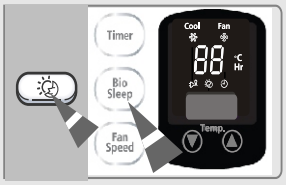
③ **Wake Up Stage :**
This stage supports comfortable intermittent air to the room to raise human body temperature for refreshing wake up.



✳ The above temperature graph might be indicated differently from the temperature indicator of indoor unit depending on the user's lacation.

- ▶ The recommended temperature is set between 25°C and 27°C, and 26°C is the most ideal temperature for comfortable sleep.
- ▶ Airflow blades(left and right swing) and fan speed are controlled automatically as the above 3 stages in Bio Sleep Mode.
- ▶ Set Off timer in Bio Sleep Mode over 5 hours. You feel disturbed sleep if the Good Morning is set too short or long because the basic off timer is set for 8 hours.If the Bio Sleep Mode is set less than 4 hours, the operation will be
- ▶ stopped after the set time. If the Bio Sleep Mode is set over 5 hours, it will run as Wake Up stage for the last one hours before stop.

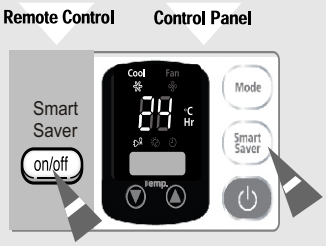
To Cancel the Bio Sleep Mode

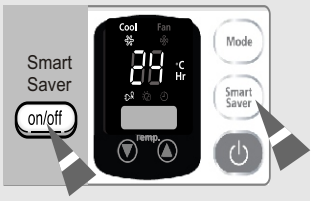


If you no longer wish to use the Bio Sleep mode that you have set, you can cancel it at any time.

1	Press the ⏻ button on the remote control. or press the ⏻ button on the unit to switch off the air conditioner.
2	To cancel a selected Bio Sleep mode,you can also press the , E-Saver , Timer or Fan button on the remote control or press the Bio Sleep , E.Saver , Mode or Timer button on the unit.
Result:	◆ The unit beeps. ◆ The indicator is no longer displyed. ◆ The air conditioner operates in the mode selected last.
➢	If you select the Energy Saving mode in the Bio Sleep mode, the Bio Sleep mode will be canceled and the air conditioner will start up in the Energy Saving mode.

Selecting Smart Saving Mode





If you wish to save smart when using your air conditioner, select the smart saving mode with the Smart Saver button.

1 To select the smart saving mode, press the Smart Saver button on the remote control or unit one or more times until the Smart Saver indicator lights up.

Result: ◆ The fan and compressor cycle on and off together.
◆ The fan will continue to run for a short time after the compressor cycles off.

➢ If you would like the air conditioner to run in Fan mode, do not press the Smart Saver button. You cannot use the Fan mode in the saving mode.

2 To stop the smart saving mode, press the Smart Saver button on the remote control or unit again.

Result: The fan runs at all times, while the compressor cycles on and off.

➢ If you select the Sleep Timer in the Smart Saving mode, the Smart Saving will be cancelled and the air conditioner will start up in the Sleep Timer mode.

Operating Recommendations

Here are a few recommendations that you should follow when using your air conditioner.

Topic	Recommendation
Power failure	If a power failure occurs when the air conditioner is operating, the unit is switched off. When the power returns, the air conditioner starts up again automatically.

Temperature and Humidity Ranges

The following table indicates the temperature and humidity ranges within which the air conditioner can be used.

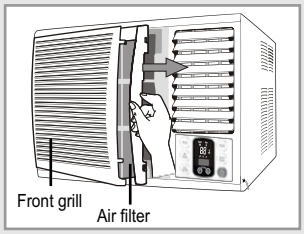
Mode	Indoor Temperature	Outdoor Temperature	Indoor Humidity
Cooling	21°C to 32°C approx.	21°C to 54°C approx.	80% or less

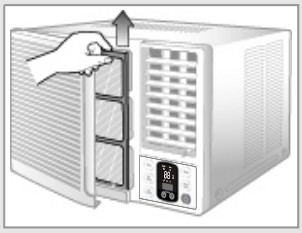
If the air conditioner is used at...	Then...
Higher temperatures	The automatic protection feature may be triggered and the air conditioner stopped.
Lower temperatures	A water leakage or some other malfunction may happen if the heat exchanger freezes.
Higher humidity levels	Water may condense on and drip from the surface of the unit if it is used for long periods.

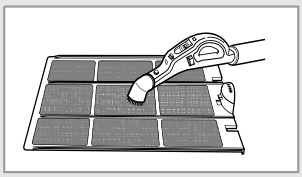
Cleaning Your Air Conditioner

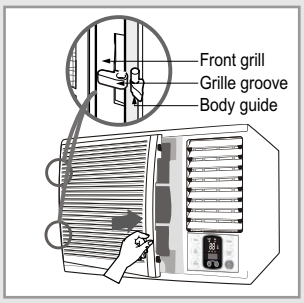
Be sure to clean the air filter periodically to maintain the air conditioner in the best condition for a long period of time.

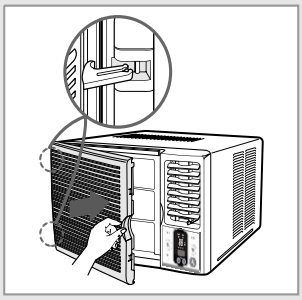
IMPORTANT ***When cleaning the air conditioner, turn it off and pull out the power plug.***











The air conditioner has two or three grille grooves depending on the model

1 Hold the air filter handle, slightly pull it to the left side and open the front grill.

➢ The removal of the front grill makes it easier to clean the air conditioner. Open the grill as much as possible.

CAUTION

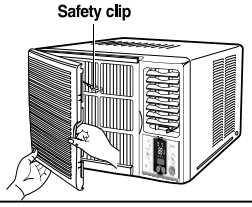
Removal and Reassembly of the Front Grill

For user's safety, a safety clip has been installed in the front grill.

1 Grasp the lower part of the front grill and the air filter handle, then open the grill.

2 Remove the safety clip and the front grill.

3 When reassembling the front grill, you should install the safety clip again.



CAUTION

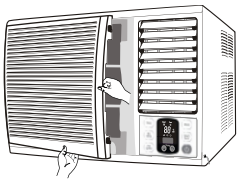
Removal and Reassembly of the Front Grille

For user's safety, a safety clip has been installed in the front grille.

1 Grasp the lower part of the front grille and the air filter handle, then open the grille. (The open angle of front grille has not to be exceeded 90 degree)

2 Pull out the front grill and remove it from front panel.

3 Reassembling of front grille should be done in reverse order of disassembly.



2 Pull the air filter to the right side.

3 Remove all dust on the air filter with a vacuum cleaner or brush.

4 When you have finished, insert the air filter back into its original position.

5 Wipe the surface of the unit with a neutral detergent and then wipe it again with dry cloth.
(Be sure not to use benzene, solvent or other chemical products.)

➢

If you...	Then...
Will not be using the air conditioner for a long period of time	◆ Set the fan going for a few hours to dry the inside of the air conditioner thoroughly. ◆ Switch the air conditioner off and unplug it from the wall socket. ◆ Clean the filter and outer surfaces.
Have not used the air conditioner for a long period of time	Set the fan going for a few hours to dry the inside of the air conditioner thoroughly.

Solving Common Problems

Before contacting the after-sales service, perform the following simple checks. They may save you the time and expense of an unnecessary service call.

Problem	Explanation/Solution
The air conditioner does not operate at all	◆ Check that the circuit breaker used for the air conditioner has not been triggered. ◆ Check that the power cable is plugged into a wall socket and the socket is switched on, if necessary. ◆ Check that the operating mode indicator (COOL or FAN) on the unit is lit up; if necessary press ⏻ (On/Off) on the remote control or unit.
The air conditioner does not operate with the remote control	◆ Check that there are no obstacles between you and the unit. ◆ Replace the remote control batteries if necessary. ◆ Check that you are close enough to the unit (seven metres/yards or less).
No beep is heard when you press ⏻ (On/Off) on the remote control	◆ Check that you are pointing the remote control at the remote control sensor on the unit. ◆ Replace the remote control batteries if necessary.
The air conditioner does not cool	◆ Check that the correct operating mode has been selected COOL. ◆ The room temperature may be too low. ◆ Dust may be blocking the air filter; refer to page 15 for cleaning instructions. ◆ Check that there is no obstacle blocking the air flow into or out of the unit.
The air flow direction does not change when you press the button	◆ Check that the air conditioner has been switched on; if necessary, press ⏻ (On/Off) on the remote control or unit.
The timer is not correctly triggered	◆ Check that the timer has been programmed correctly; see page 11~13.
Odours are permeated in the room during air conditioning	◆ Air the room.

Technical Specifications

Design and specifications are subject to change without notice.

Model No.	Power Supply	Net Dim.(mm)
AW12Z**	230V~,50Hz	W560XH370XD550
AW18Z**		W620XH425XD645
AW18W**		W620XH425XD645

Note : All specifications are as per rated condition, i.e. Indoor temp. : 27°C and outdoor temp: 35°C.
Current and power vary as the outdoor temperature vary.

Installation

Before installation, be sure to check the installation area or the air conditioner, and drain hose.

Checkpoints prior to installation

1 Check the cabinet and front grille of the unit for any harmful defects such as scratches.

2 Be sure to check the power supply.
- Refer to the specifications on the label attached to the unit.

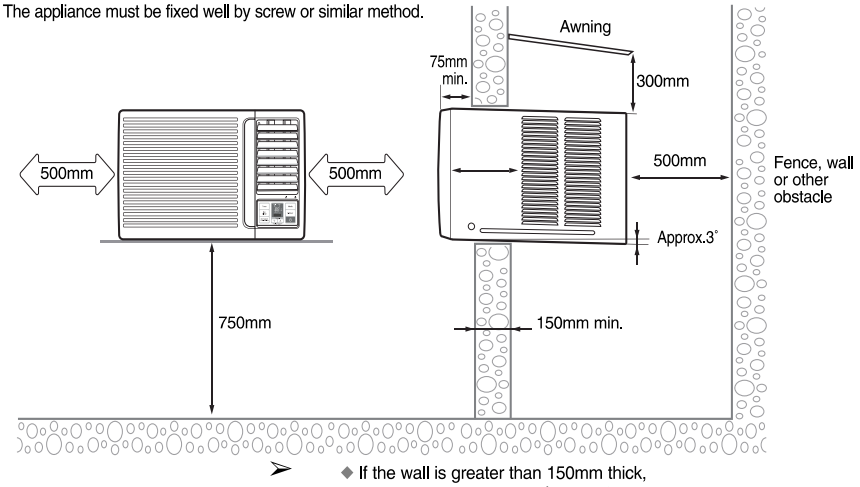
Installation Conditions

1 As the unit is heavy, the wall or window of the installation area should have sufficient strength and durability for operation of the air conditioner, and for prevention of any vibration or noise.
If it is weak, reinforcement work should be performed separately.

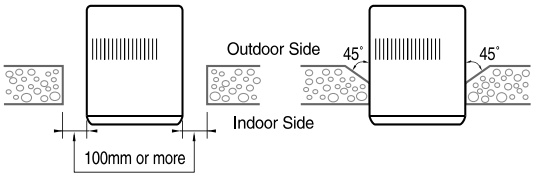
2 It is advisable to install the air conditioner in the north or west side to prevent the effect of direct sunlight.
When installing it in the south or east side due to unavoidable circumstances, it is advisable to install the sunshade to prevent the direct sunlight.
In this case, take care not to cause any hindrance to the flow of outside air.

3 When installing the air conditioner, be sure to obtain sufficient space on the rear side of the unit for smooth flow of air.
When operating the air conditioner in closed areas such as inner building with cooling operation, and result in trouble with the unit.
See the illustration below.

◆ The appliance must be fixed well by screw or similar method.

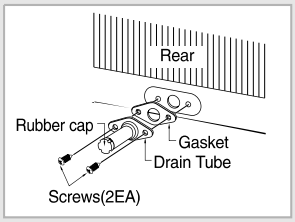


◆ If the wall is greater than 150mm thick, cut the wall back on a 45˚ angle if possible.



Installation of the Drain Tube

Fix the drain tube as shown in the figure.



Installation of the Drain Pan

The procedure for installing the drain pan should be determined by the condition of the installing area.

◆ **In the case of an area where the drain pan can not be directly installed on the rear side of the unit after installing the air conditioner.**

Example: High storage

1 Open the front grill; refer to page 16

2 **Remove the screw located at the lower section of the front grille. It is secured in the ⬭ section depending on the model.**

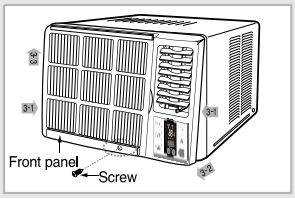
3 Remove the front panel.

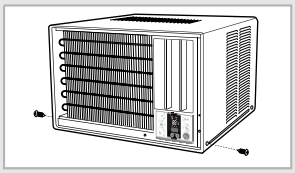
3-1 Press both sides of the cabinet in the direction of the arrow as shown in the figure.

3-2 Pull the lower part of the front panel slightly forward. (below three inches)

3-3 Lift the front panel upward.

☛ Applying excessive force to remove the front panel may cause damage to the tab ; be sure not to use excessive force.





4 Remove two screws on the lower, right and left sides of the unit.

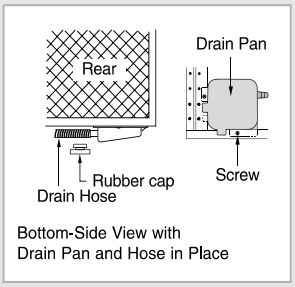
5 Remove the chassis from the cabinet.

6 Remove the rubber cap inserted into the basepan.

7 Fix the drain pan as shown in the figure, and then connect the drain hose. (You can use any commercially-available drain hose.)

8 Install the cabinet at the specified area after installing the drain pan, and then re-assemble it in the original condition.

➢ Secure the front panel to the case by replacing the screw removed in step 2. If a screw not removed in step 2, secure the panel with a supplied screw.

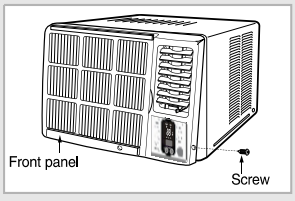


Bottom-Side View with Drain Pan and Hose in Place

◆ **In the case of an area where the drain pan can be directly installed on the rear side of the unit after installing the air conditioner.**

1 Follow steps 6 and 7 only

◆ In the case the lock in the front panel gets broken, apply the screw in the hole provided on the front panel.



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